

FIRE RESISTANT, LOW SMOKE-EMITTING, NON-HALOGEN POLYOLEFIN FORMULATION FOR PROTECTING INSULATION PROPERTY OF AUTOMOBILE CABLE

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Abstract of JP2000191845

PROBLEM TO BE SOLVED: To obtain a composition excellent in fire resistance, thermal stability and an electric insulating property, colorable and free from halogenated components by adding a hydrated inorganic filler, an alkoxysilane, a fatty acid derivative, a curing agent and other additives each in a specific amount to a polyolefinic resin mixture.

SOLUTION: To a collaborating mixture comprising an ethylene/2-6C vinyl ester of an acid and a low density polyethylene and optionally containing an additional polyethylene, a polypropylene, a copolymer thereof or a terpolymer are added about 80-400 phr of an hydrated inorganic filler, about 0.5-5 phr of an alkoxysilane, about 1-8 phr of a curing agent, about 0.35-8 phr of an additive containing a three-component lubricant mixture comprising a 8-22C saturated fatty acid and/or a fatty acid derivative, a low mol.wt. silicone oil and a microcrystalline wax or a paraffin and about 1-8 phr of an antioxidant to give a composition suitable for insulation and protection of cables and electroconductive matters.

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